	TED STATES PATENT A	AND TRADEMARK OFFICE	UNITED STATES DEPAR United States Patent and Address: COMMISSIONER F P.O. Box 1450 Alexandria, Virginia 22: www.uspto.gov	OR PATENTS
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/923,374	08/07/2001	Erik Dahlman	8194-585	8934
20792 7590 04/14/2006			EXAMINER	
MYERS BIGEL SIBLEY & SAJOVEC			KUMAR, PANKAJ	
PO BOX 37428 RALEIGH, NC 27627			ART UNIT	PAPER NUMBER
,,		•	2611	· · · · ·
			DATE MAILED: 04/14/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

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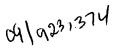
		SF
	Application No.	Applicant(s)
	09/923,374	DAHLMAN ET AL.
Office Action Summary	Examiner	Art Unit
	Pankaj Kumar	2611
The MAILING DATE of this communic Period for Reply	-	
A SHORTENED STATUTORY PERIOD FO WHICHEVER IS LONGER, FROM THE MA - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commur - If NO period for reply is specified above, the maximum statu - Failure to reply within the set or extended period for reply wi Any reply received by the Office later than three months afte earned patent term adjustment. See 37 CFR 1.704(b).	ILING DATE OF THIS COMMUN 37 CFR 1.136(a). In no event, however, may a nication. Itory period will apply and will expire SIX (6) MO ill, by statute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) \square Responsive to communication(s) filed	on 2/2/2006	
	D) This action is non-final.	
3) Since this application is in condition for	/—	tters, prosecution as to the merits is
closed in accordance with the practice	·	
Disposition of Claims		
4)⊠ Claim(s) <u>1-70 and 72-108</u> is/are pendi	ing in the application	
4a) Of the above claim(s) is/are		
5) Claim(s) <u>69,70 and 72-85</u> is/are allow		
6) Claim(s) <u>1-9,11-17,21-28,32-37,45,46</u>		-108 is/are rejected.
7) Claim(s) <u>10,18-20,29-31,38-44,47,48</u> ,		
8) Claim(s) are subject to restriction		-
Application Papers		
9) The specification is objected to by the	Examiner	
	a) accepted or b) objected to	by the Examiner.
Applicant may not request that any objecti		
Replacement drawing sheet(s) including the	÷.,	
11) The oath or declaration is objected to I		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim fo a) All b) Some * c) None of:	or foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
1. Certified copies of the priority de	ocuments have been received.	
2. Certified copies of the priority d		Application No
3. Copies of the certified copies of		
application from the Internation	al Bureau (PCT Rule 17.2(a)).	-
* See the attached detailed Office action	for a list of the certified copies no	t received.
Attachment(s)		
Attachment(s) 1) X Notice of References Cited (PTO-892)		Summary (PTO-413)
		(s)/Mail Date
 Notice of Draftsperson's Patent Drawing Review (PTC 3) Information Disclosure Statement(s) (PTO-1449 or P Paper No(s)/Mail Date 		Informal Patent Application (PTO-152)

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed have been fully considered but they are most in view of the new ground of rejection.

Response to Amendment

Information Disclosure Statement

2. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1, 12, 32, 50, 53, 58, 86, 99, 2, 13, 100, 3, 14, 101, 15, 21, 97, 98, 4, 22, 33, 102, 5, 23, 34, 103, 6, 24, 35, 104, 8, 26, 37, 106, 11, 28, 108, 7, 25, 36, 105, 16, 17, 45, 46, 51, 54, 59, 87, 61, 89 are rejected under 35 U.S.C. 103(a) as being unpatentable over Urabe USPN
6,181,749 in view of Atarius.

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5. As per the claims, Urabe teaches to produce a first symbol representation for a symbol (Urabe: abstract); determining a first quality for the first symbol representation (Urabe fig. 9: data detection result d8 processing both channels and determining if one or both channels are valid); and responsive to the determined first quality (Urabe fig. 9: both channel valid). determining whether to further process the first symbol representation or to process a second symbol representation for the symbol generated from the spread spectrum signal (Urabe fig. 9: responsive to data detection result d8 and both channels valid, determining whether to further process the first channel or the second channel after at least symbol number comparison). Urabe does not teach correlating the spread spectrum signal with a spreading sequence at a first plurality of correlation times to produce a first plurality of time-offset correlations; processing the first plurality of time-offset correlations. Atarius teaches correlating the spread spectrum signal (Atarius fig. 3: input signal; pg.1 line 4: spread spectrum; pg. 1 line 9: correlation) with a spreading sequence (Atarius fig. 3: chip sequences) at a first plurality of correlation times (Atarius pg. 2 line 26-pg.3 line 3; pg. 1 lines 8-10; fig. 3: 320, 322, 330, 332) to produce a first plurality of time-offset correlations (Atarius fig. 3: output of 320, 322, 330, 332); processing the first plurality of time-offset correlations (Atarius fig. 3: 340, 342, 350, 352, 362, 364). It would be obvious to combine since Urabe teaches signal spread over a spectrum (Urabe col. 16 line 49) (something broad) in general and Atarius teaches the beneficial use of time offset correlating the spread spectrum signal as claimed (Atarius fig. 3: input signal; pg.1 line 4: spread spectrum; pg. 1 line 9: correlation; pg. 2 line 26-pg.3 line 3; pg. 1 lines 8-10; fig. 3: chip sequences; 320, 322, 330, 332; output of 320, 322, 330, 332; 340, 342, 350, 352, 362, 364) such as in order to decode the signal correctly (Atarius page 3 lines 2-3, 6-12, page 9 line 2, fig. 5: correlation scheme is

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multipath or delay profile which must be combined in a proper way in order to optimally detect the spread spectrum signal with a high signal to noise ratio in order for the signal to be decoded correctly by minimizing the noise) in the analogous art of communication.

6. Claims 9, 27, 49, 57, 60, 88, 107 are rejected under 35 U.S.C. 103(a) as being unpatentable over Urabe in view of Atarius as discussed above and further in view of applicant's background of the invention.

7. As per claim 9, 27, 49, 57, 60, 88, 107, Urabe in view of Atarius does not teach Grake. Applicant's background of the invention teaches the method or apparatus of an earlier claim, wherein the first symbol representation is an output of a demodulation process and wherein the second symbol representation is an output of a generalized (G-RAKE) demodulation process (applicant's specification background of the invention such as page 2 lines 8 to page 3 line 6). It would be obvious to combine since Urabe in view of Atarius teaches Rake and demodulation (something broad) in general and applicant's specification background of the invention teaches the beneficial use of G-Rake such as to receive optimum reception (applicant's specification background of the invention page 2 line 10) in the analogous art of communication.

Allowable Subject Matter

8. Claims 69, 70, 72-85 are allowed. See a prior action for details.

9. Claims 10, 18, 19, 20, 29, 30, 31, 38, 39, 40-42, 43, 44, 47, 48, 52, 55, 56, 62, 63-68, 90,
91, 92, 93, 94, 95, 96 are objected to as being dependent upon a rejected base claim, but would

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be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pankaj Kumar whose telephone number is (571) 272-3011. The examiner can normally be reached on Mon, Tues, Thurs and Fri after 8AM to after 6:30PM.

11. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

12. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Pankaj Kumar Patent Examiner Art Unit 2611

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